

FIG. 1

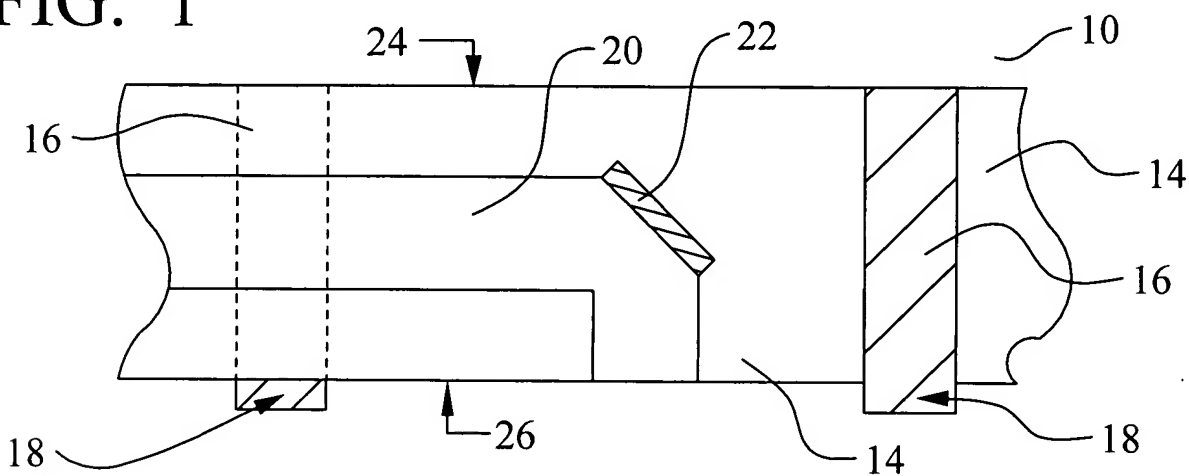


FIG. 2

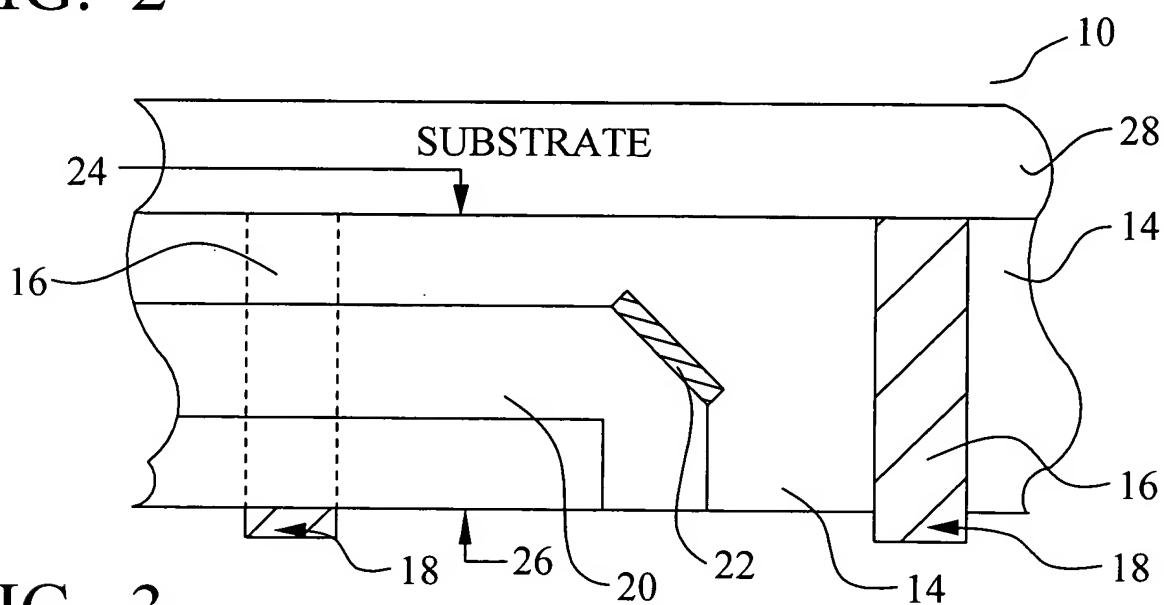


FIG. 3

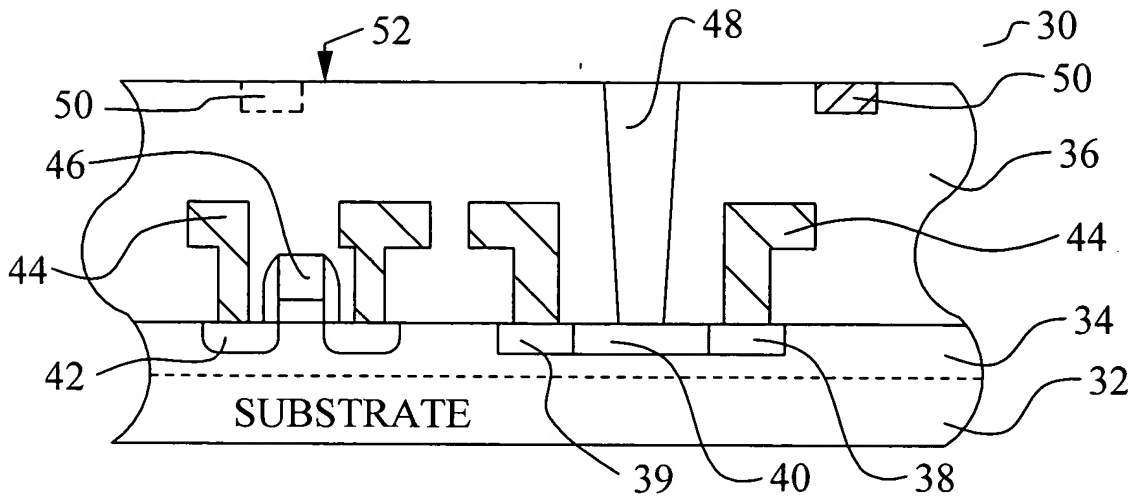


FIG. 4

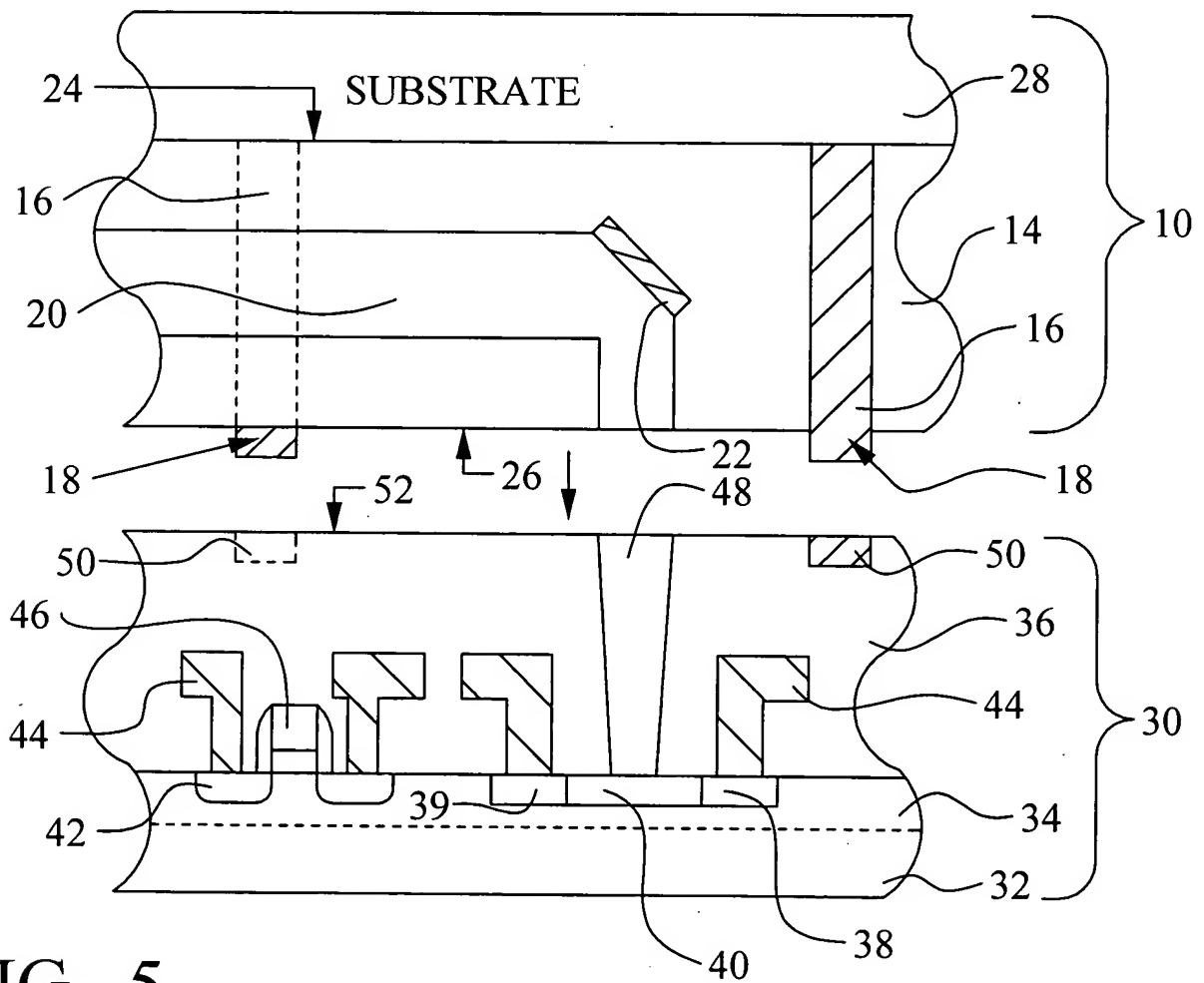


FIG. 5

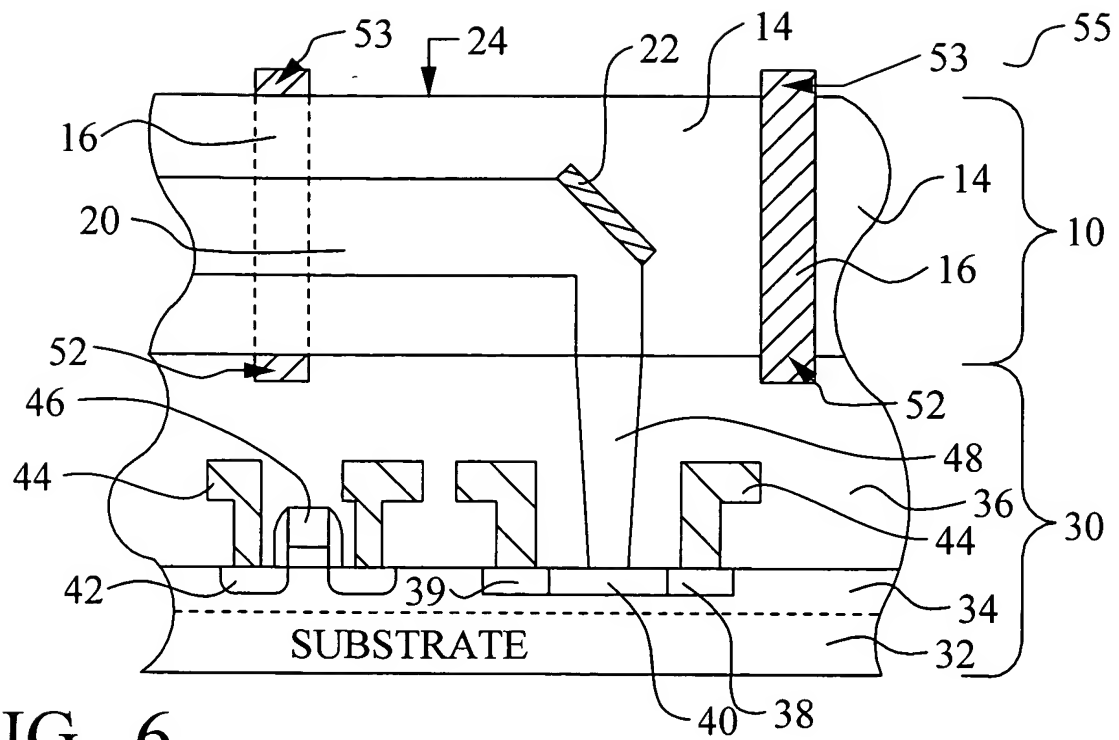


FIG. 6

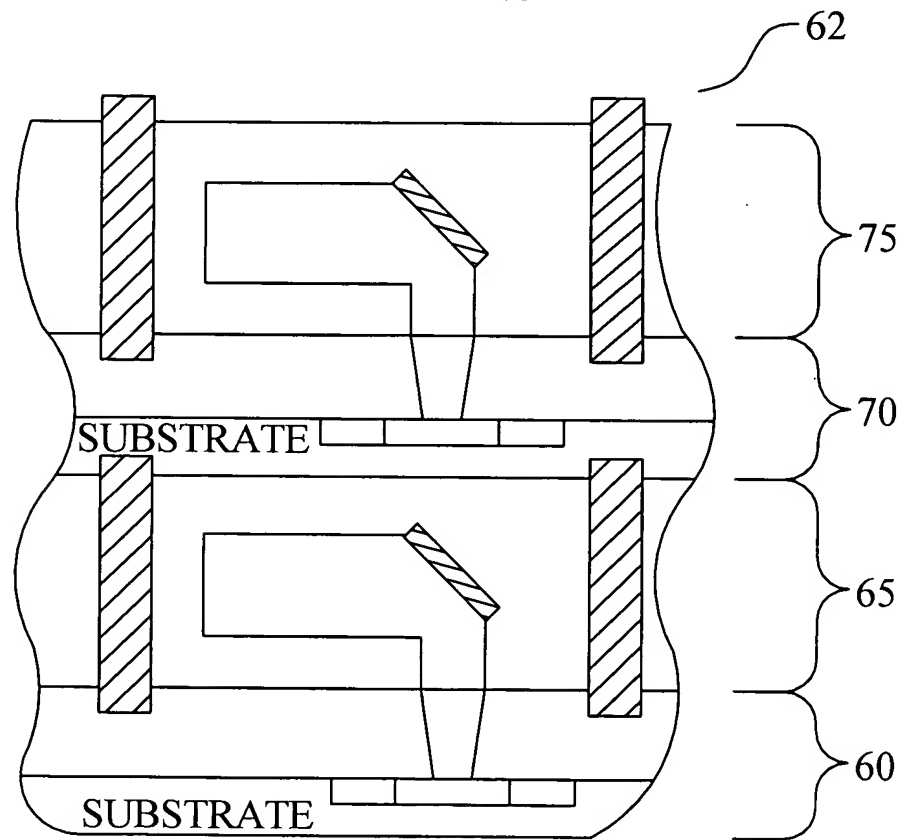


FIG. 7

FIG. 9

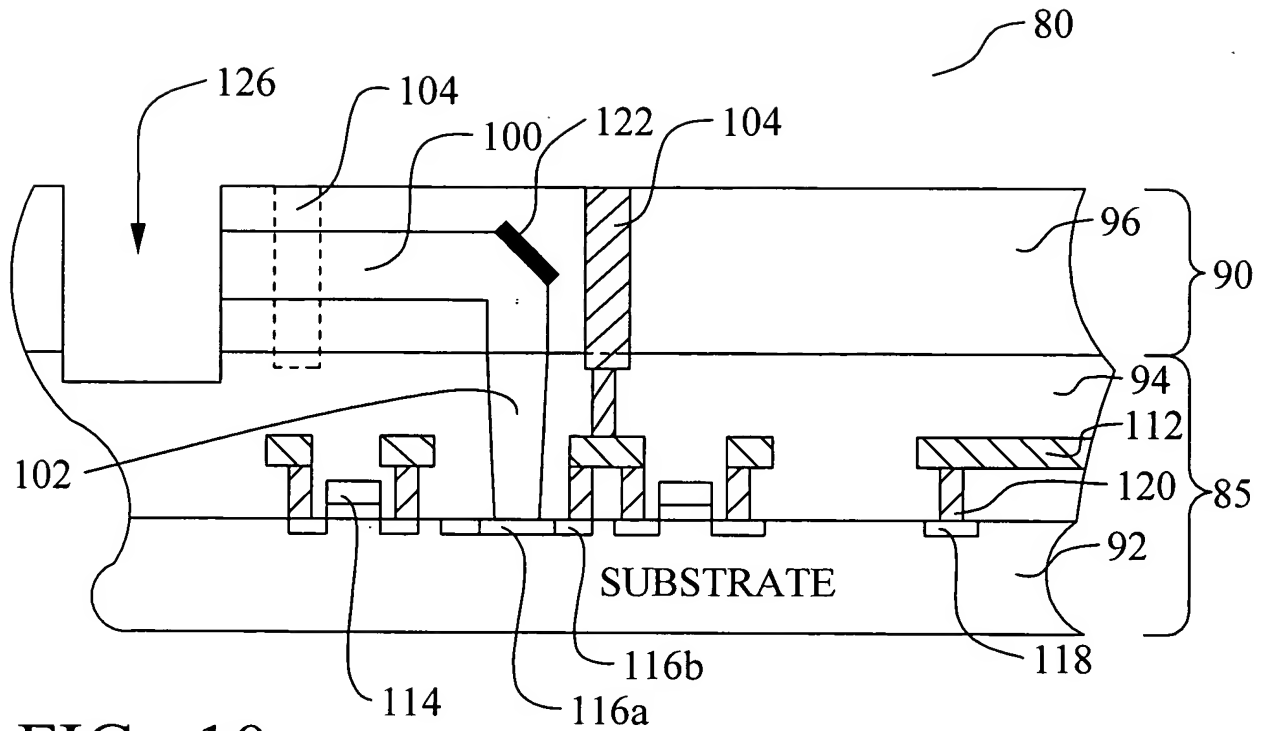


FIG. 10

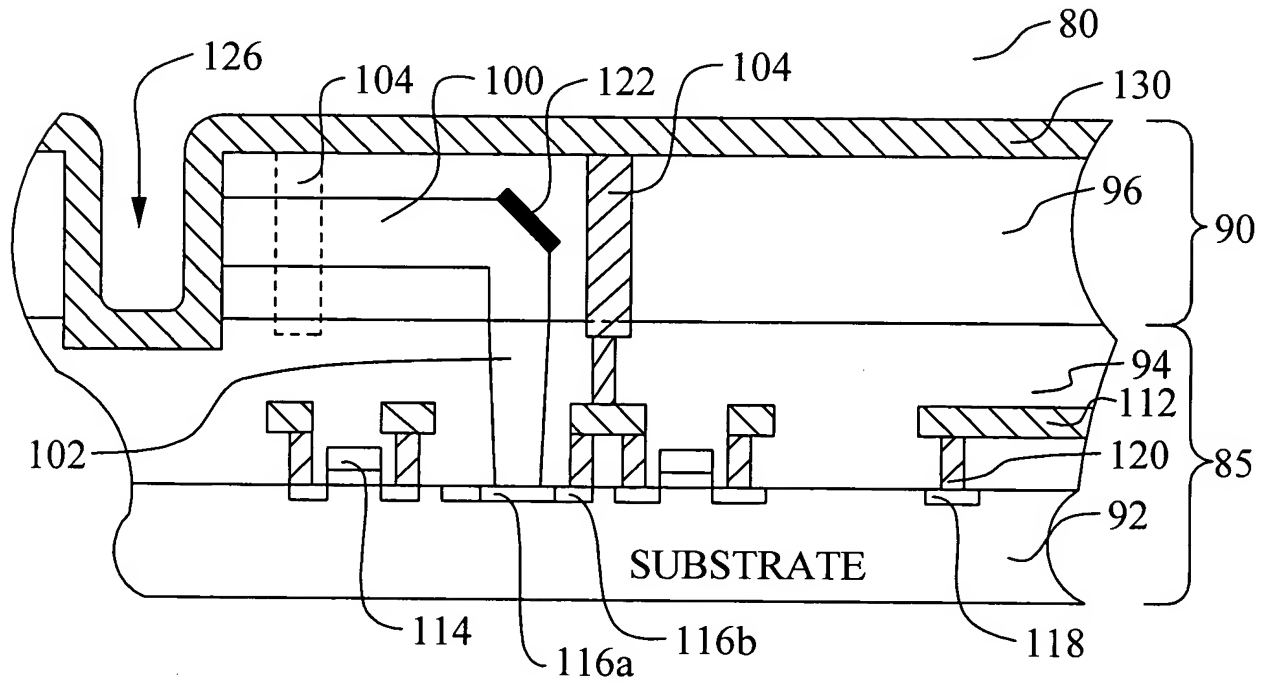
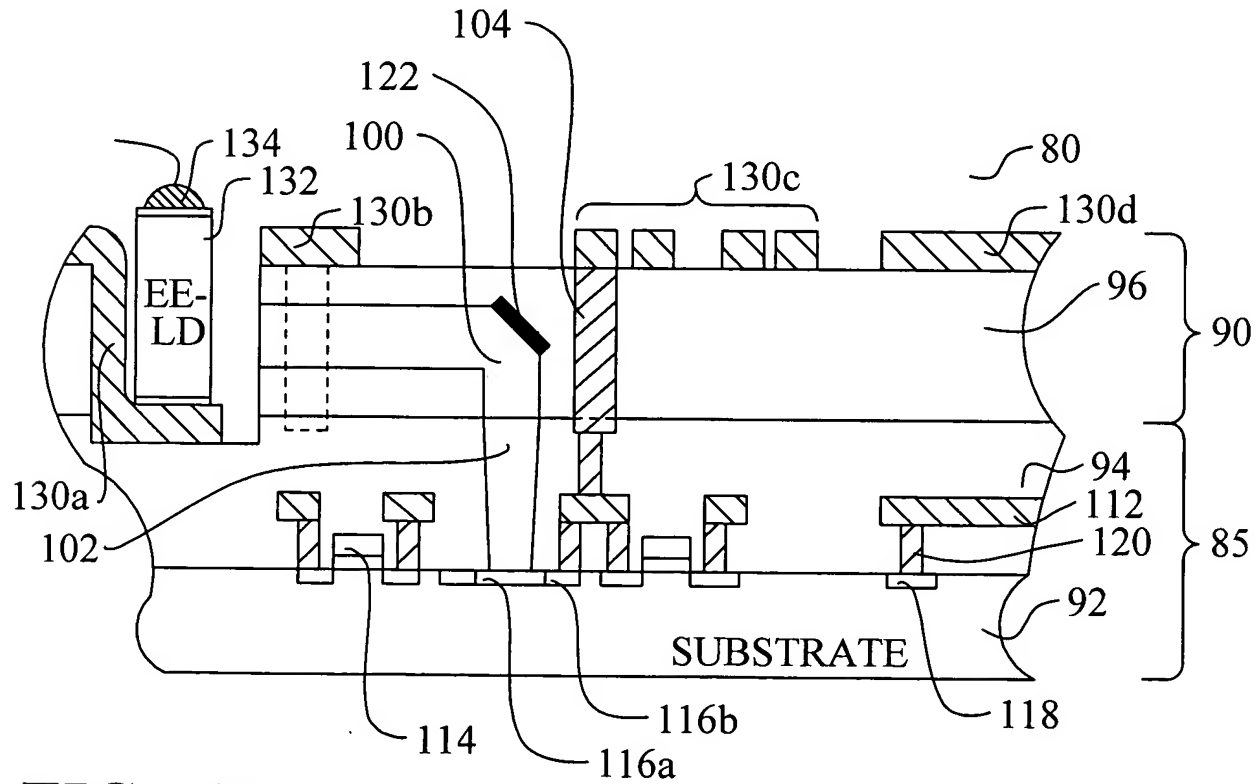
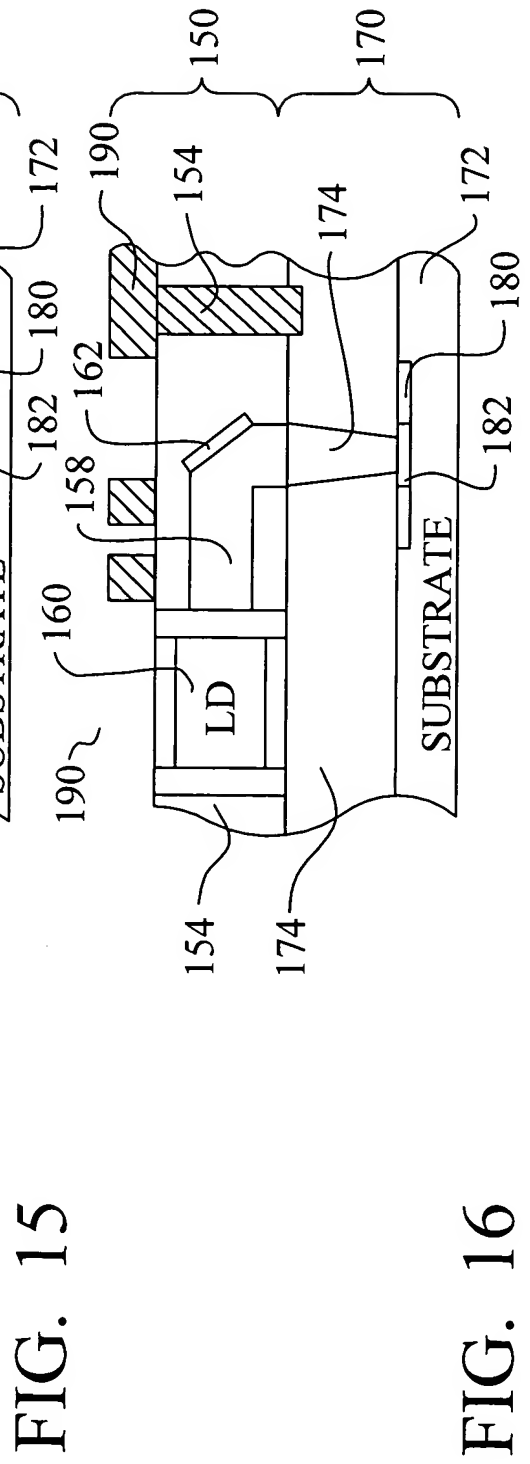
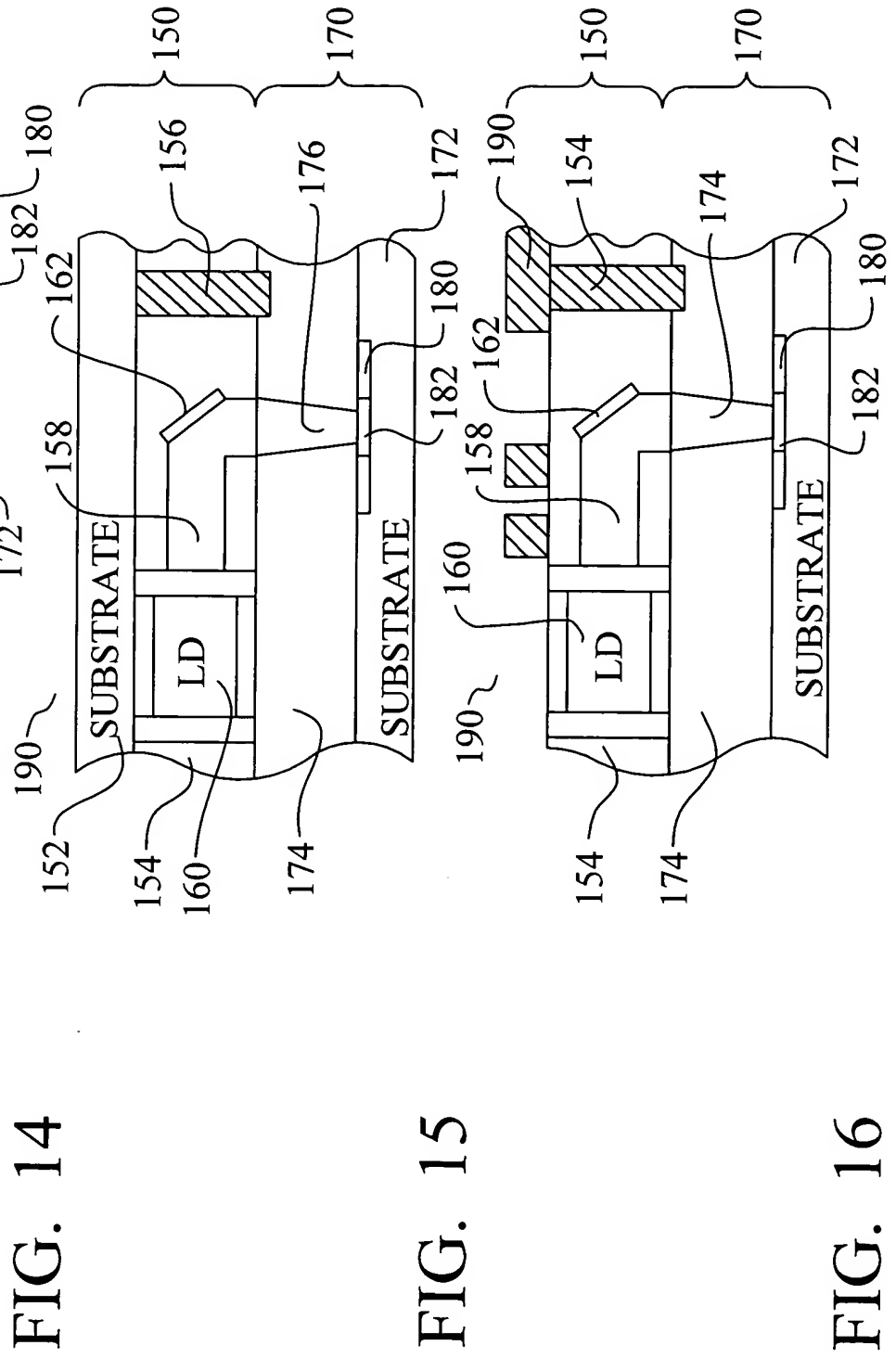
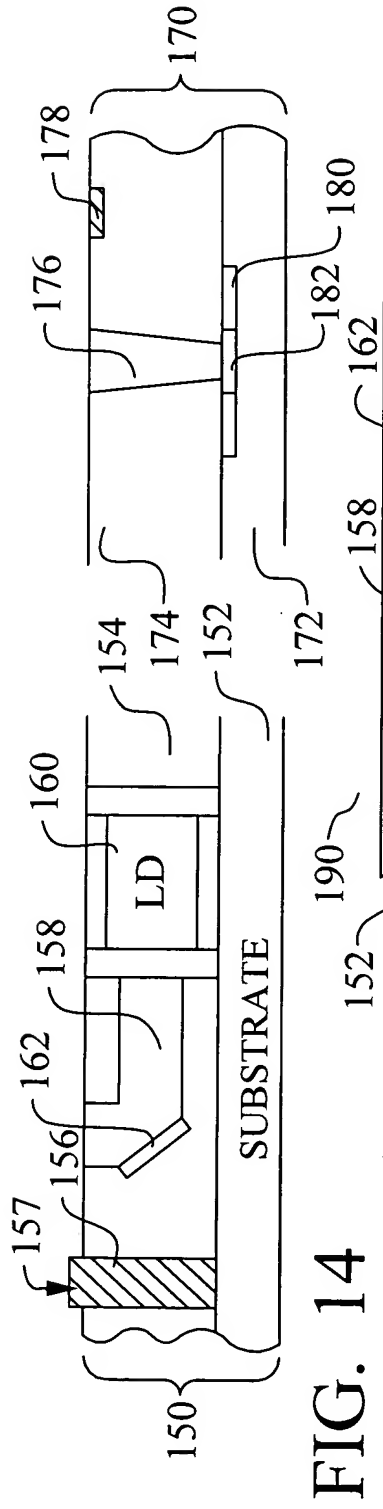


FIG. 11

FIG. 12





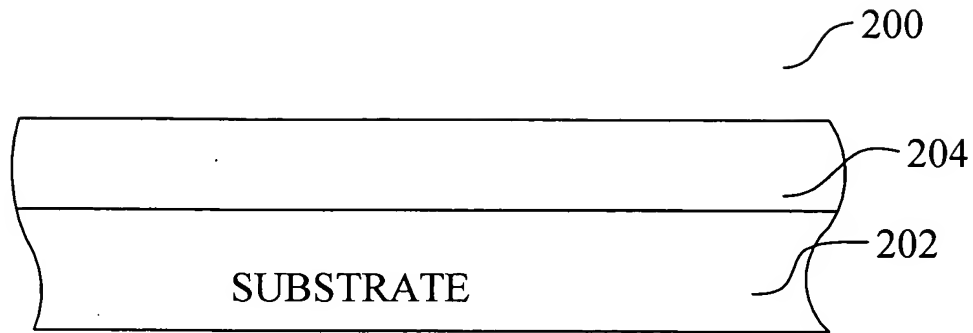


FIG. 17

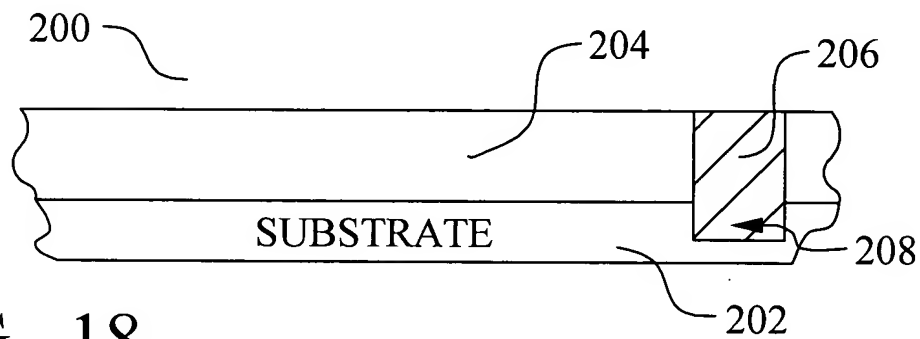


FIG. 18

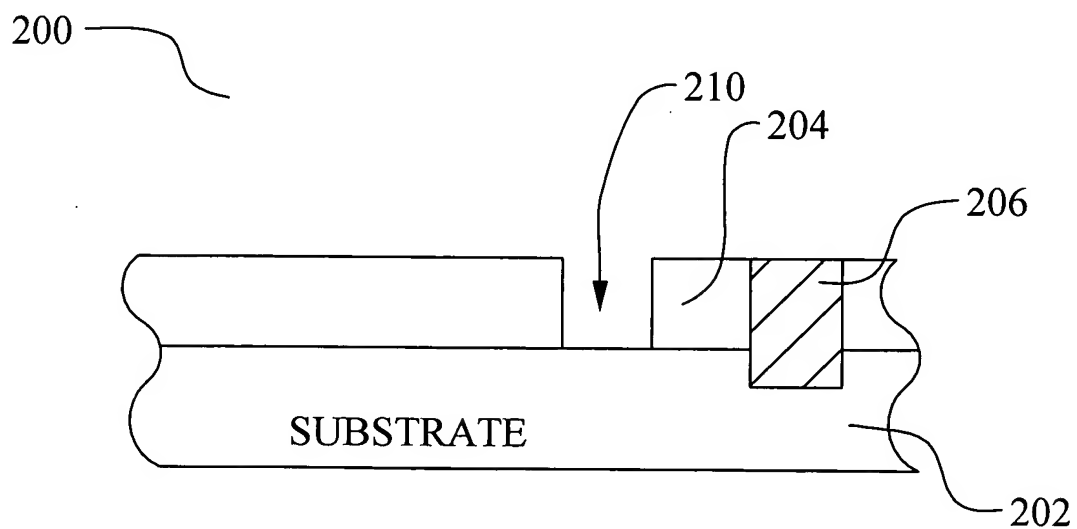


FIG. 19

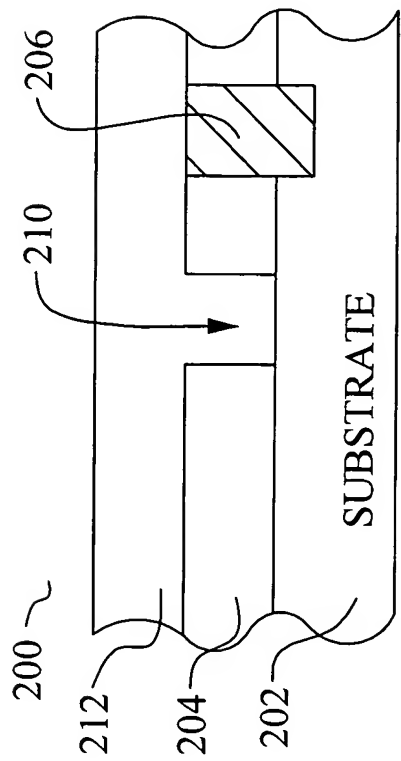


FIG. 20a

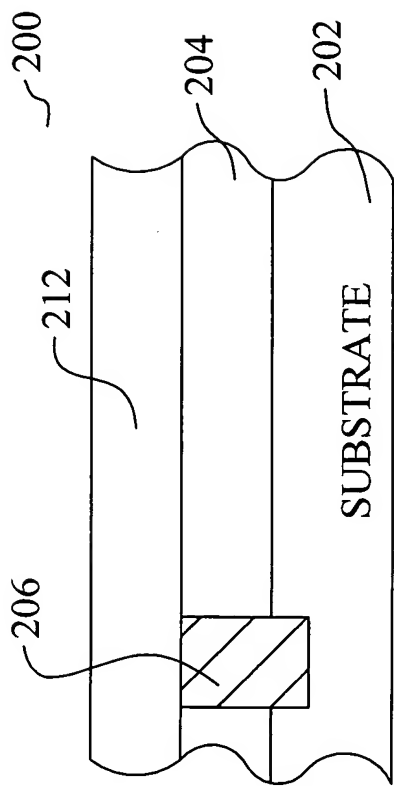


FIG. 20b

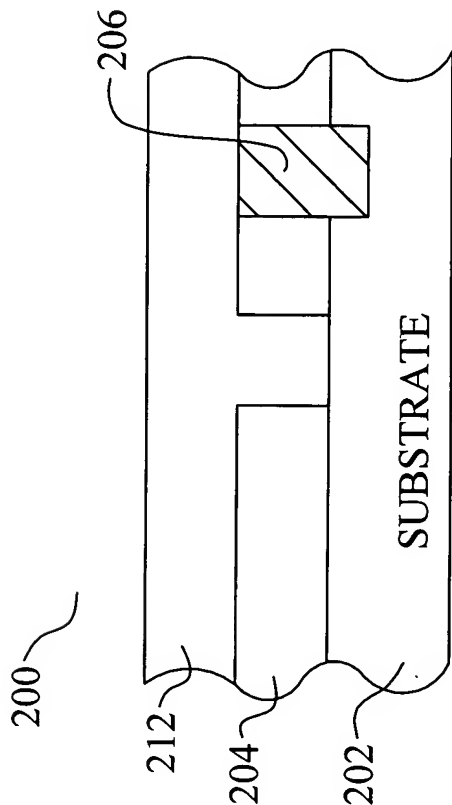


FIG. 21a

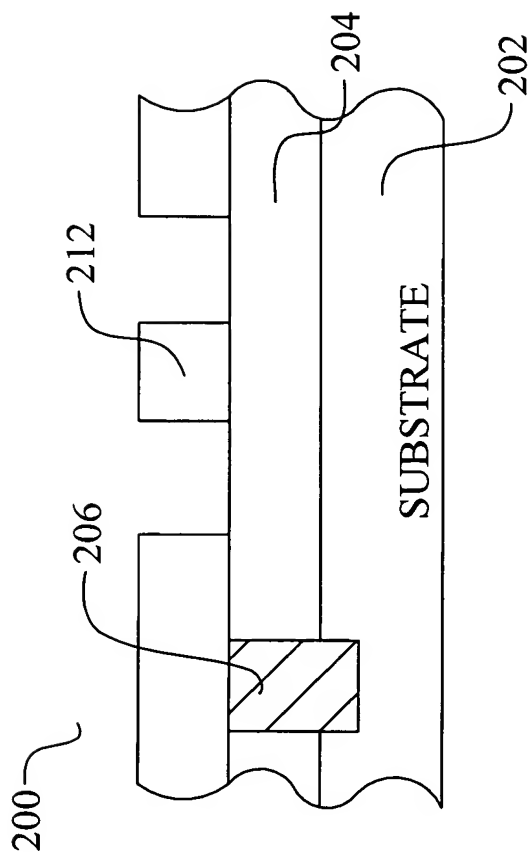


FIG. 21b

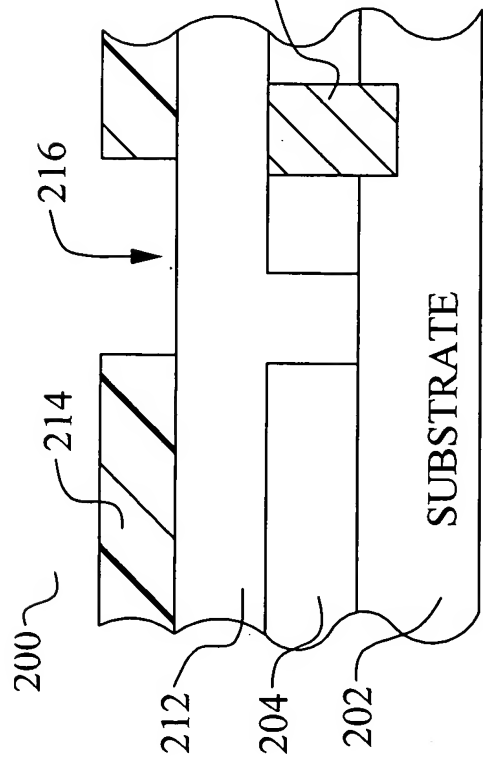


FIG. 22a

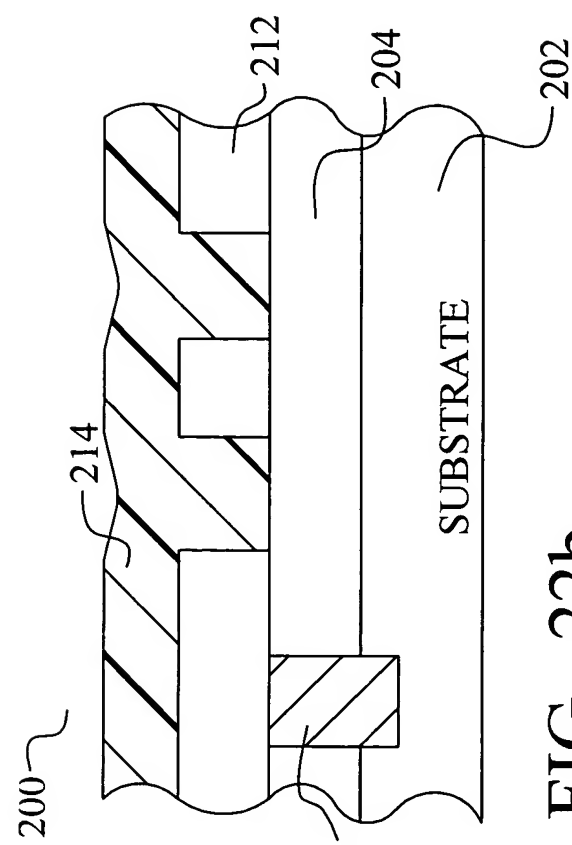


FIG. 22b

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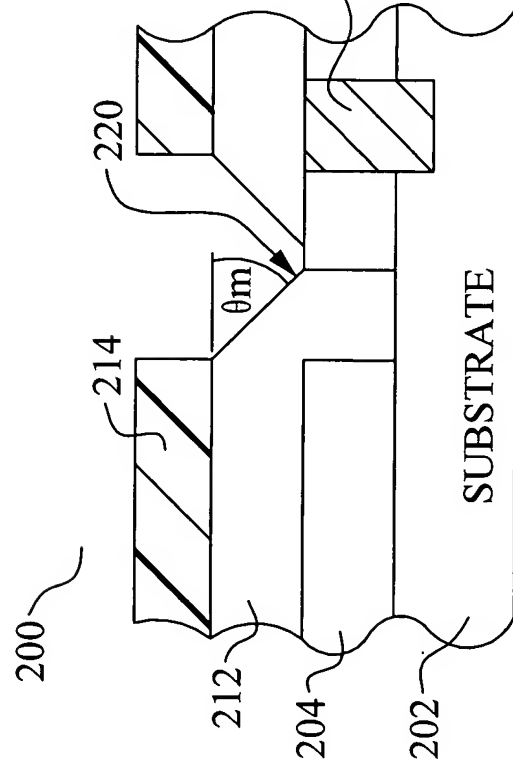


FIG. 23a

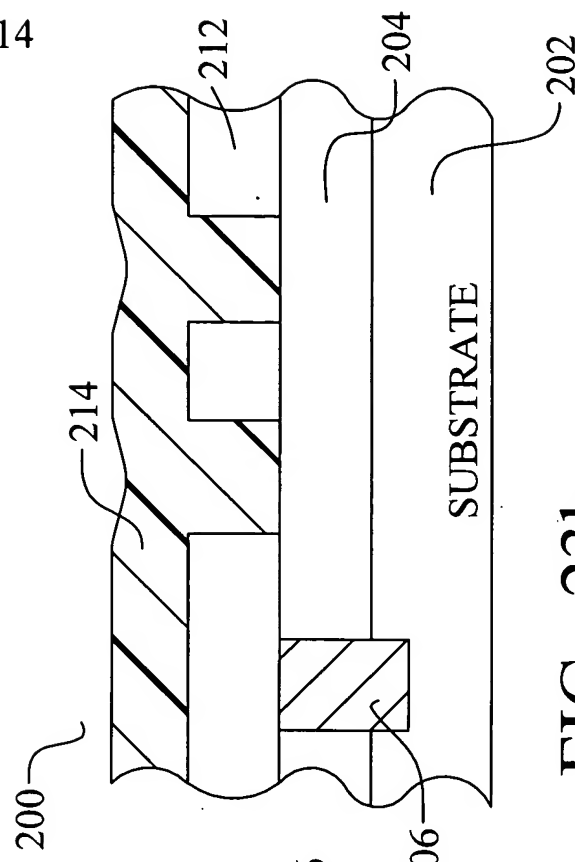


FIG. 23b

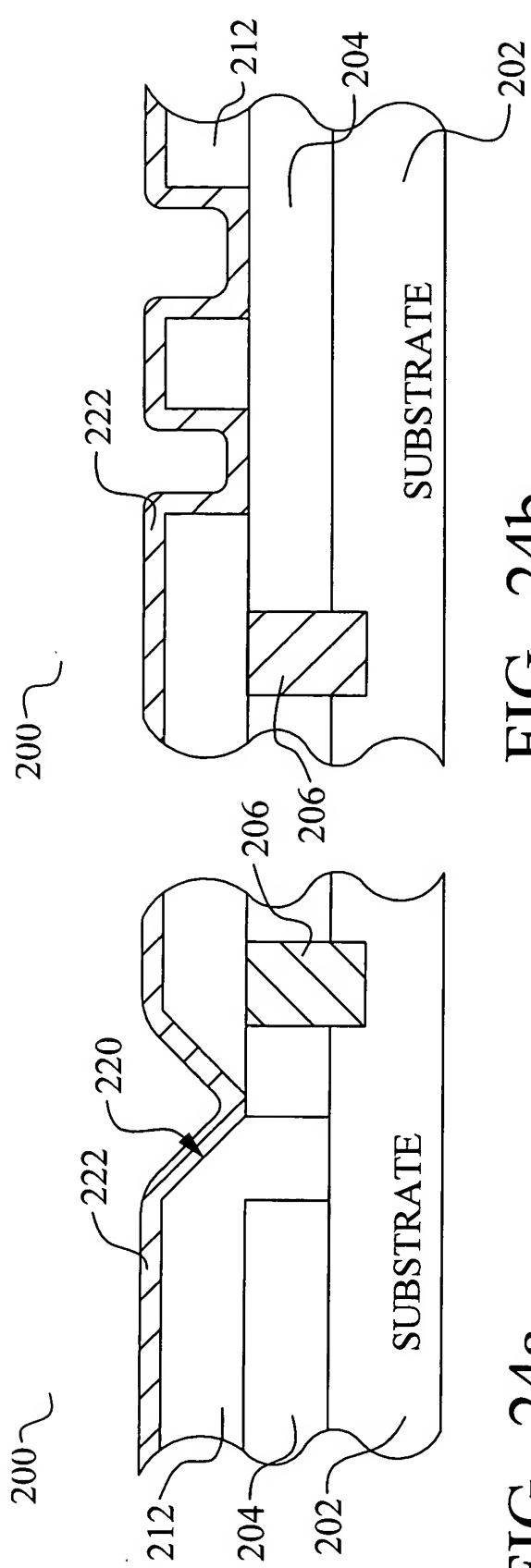


FIG. 24a

FIG. 24b

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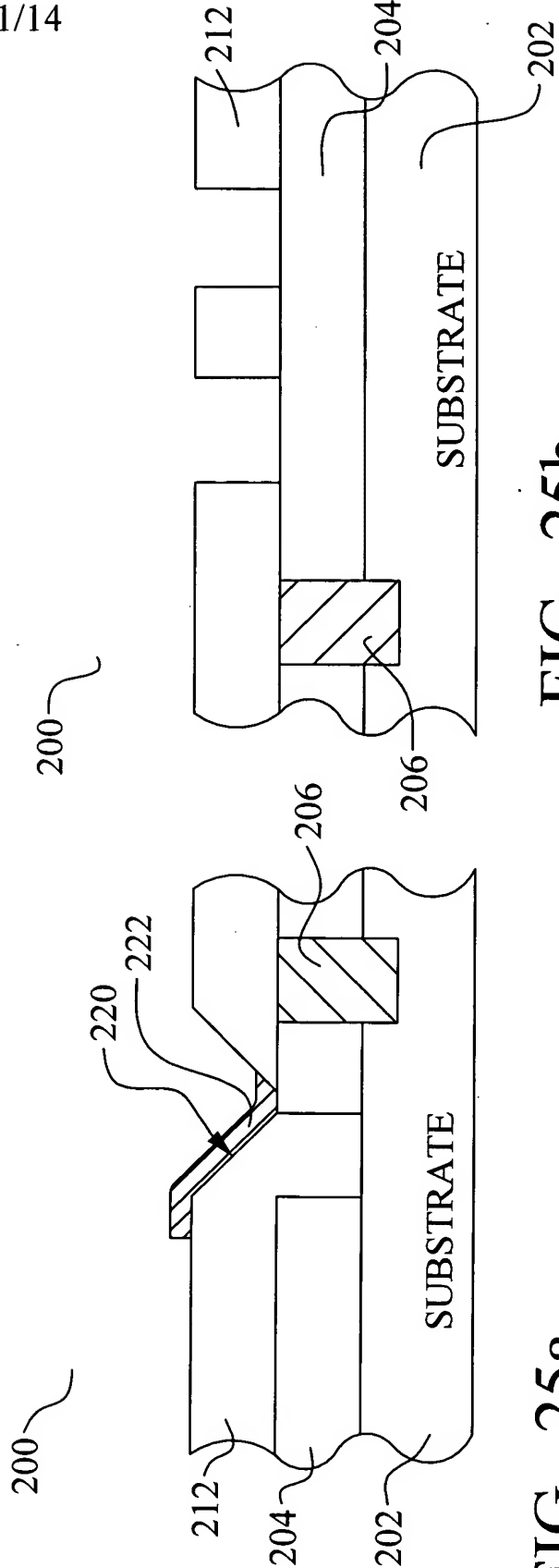


FIG. 25a

FIG. 25b

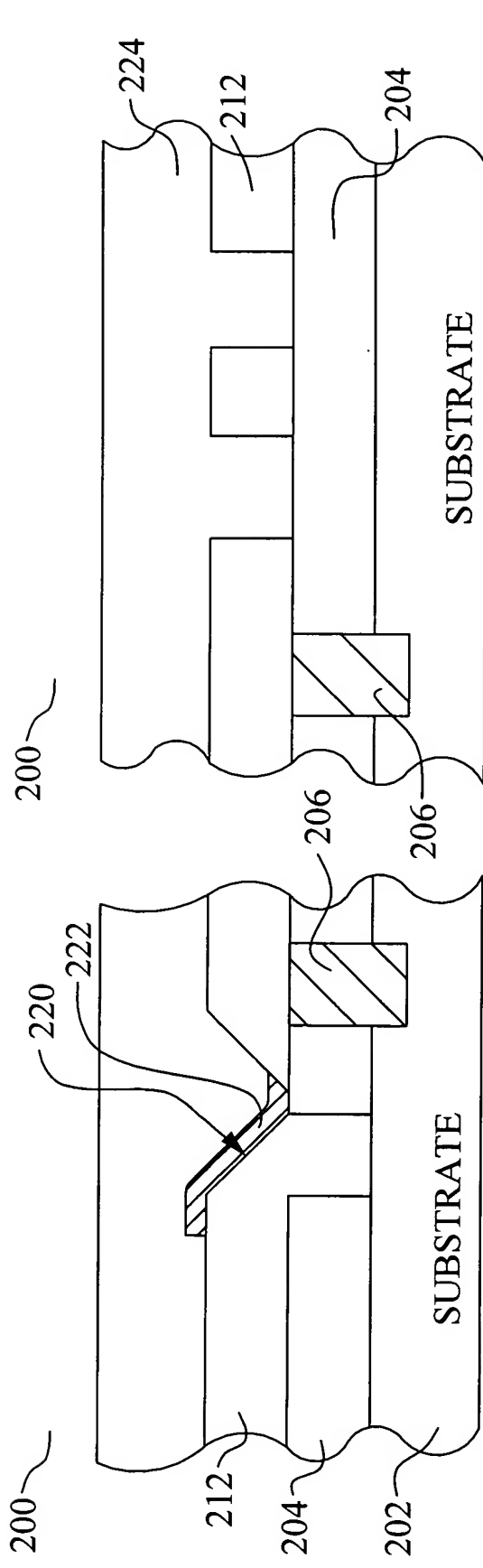


FIG. 26a

FIG. 26b

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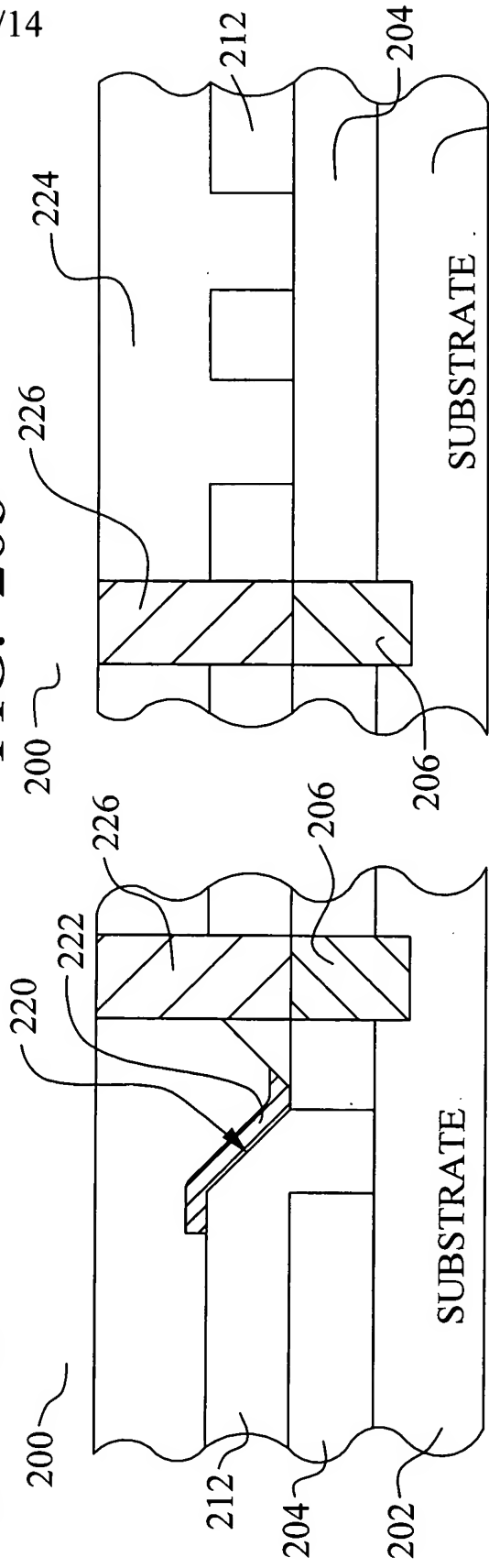
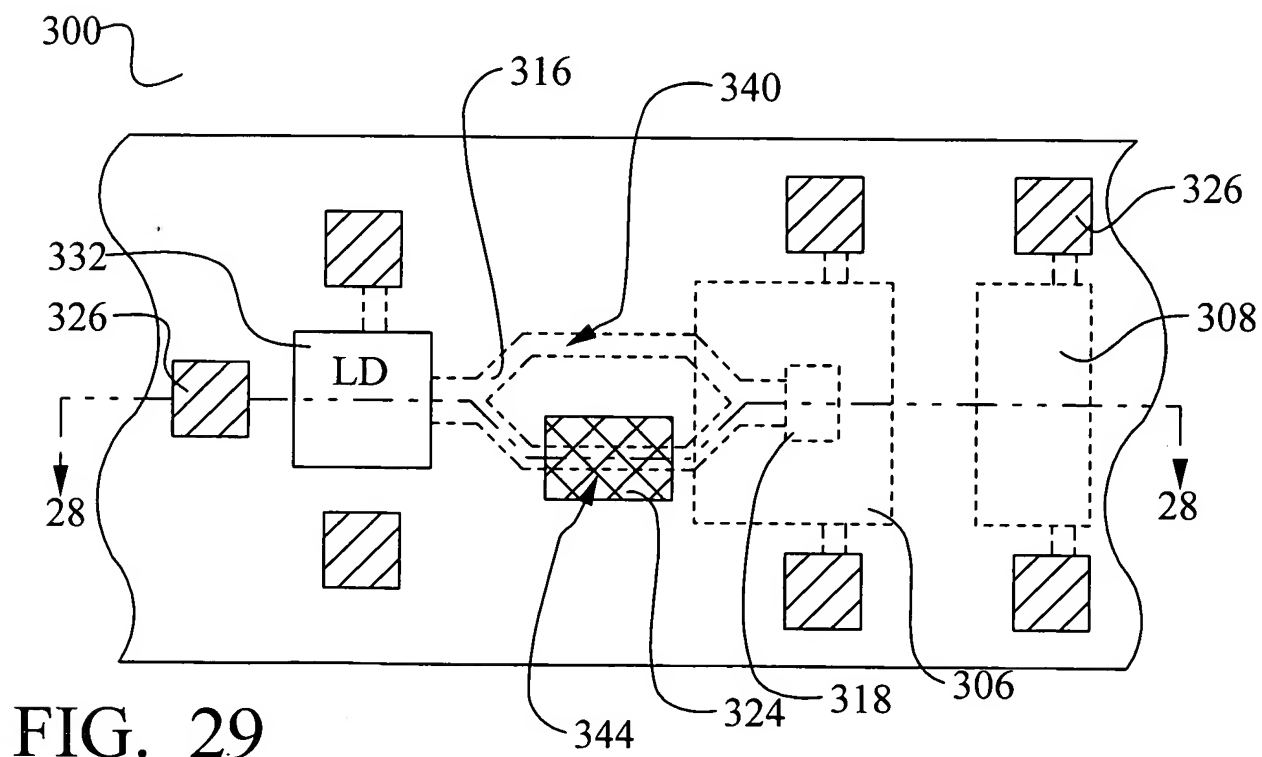
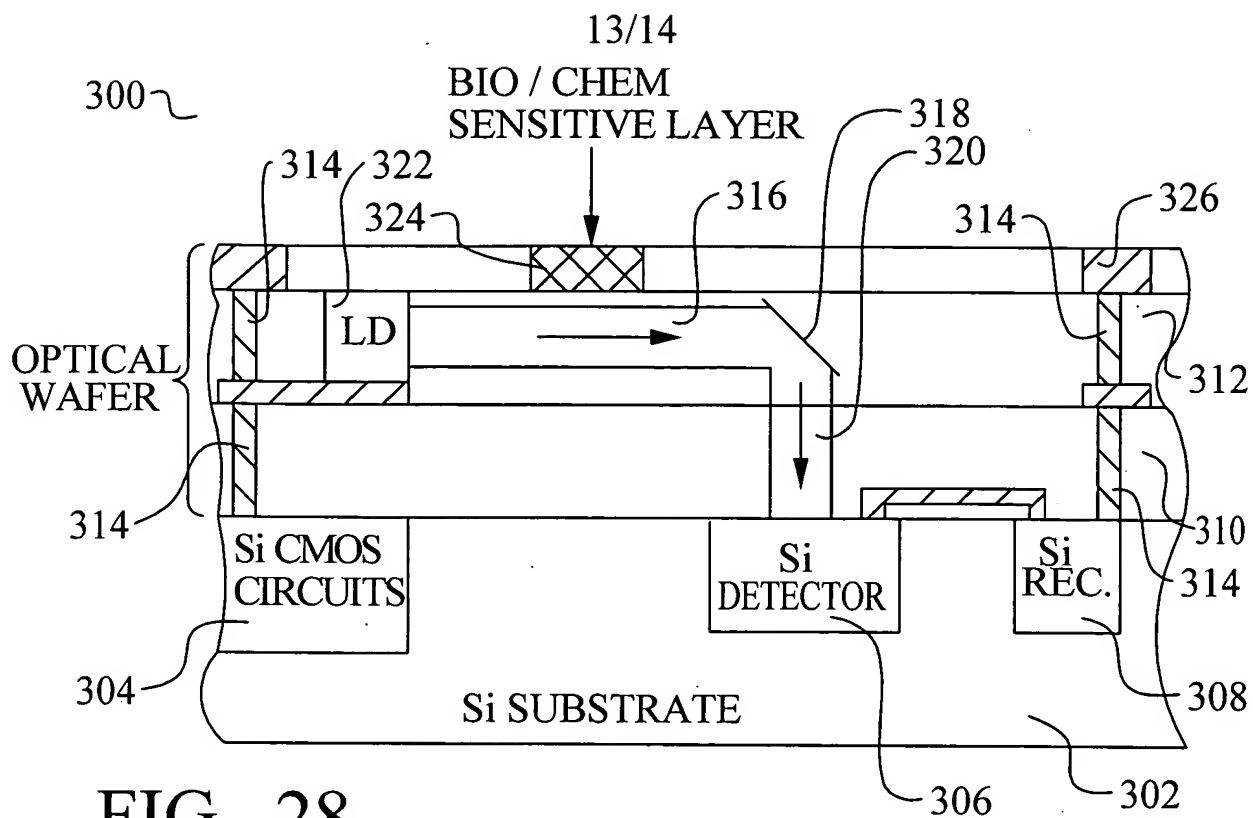
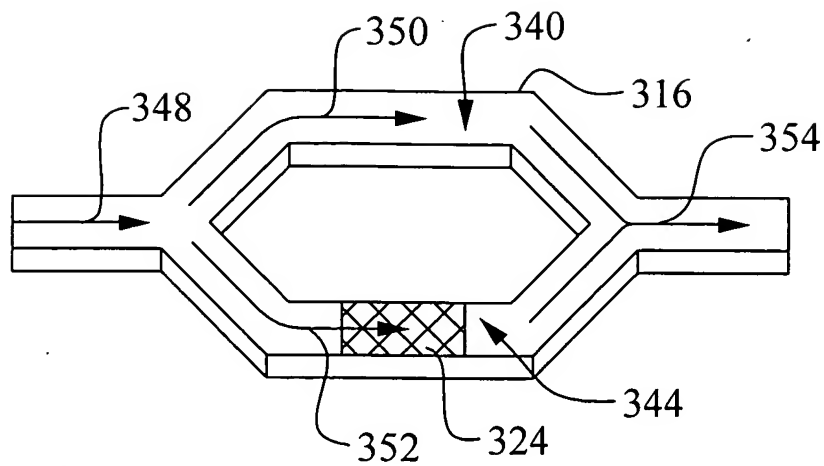


FIG. 27a

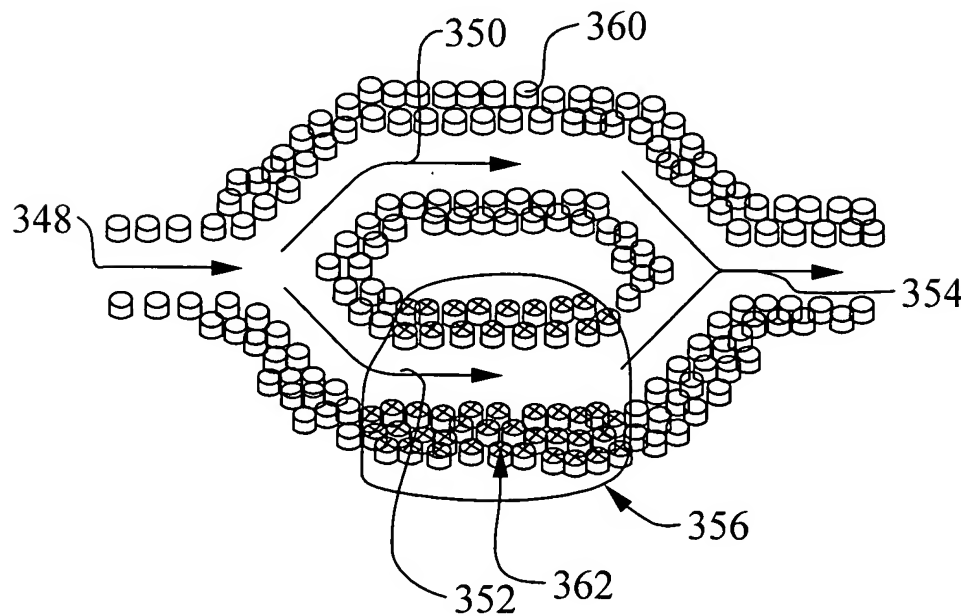
FIG. 27b





SILICA OR
SILICON
WAVEGUIDE

FIG. 30a



PHOTONIC
CRYSTAL
WAVEGUIDE

FIG. 30b